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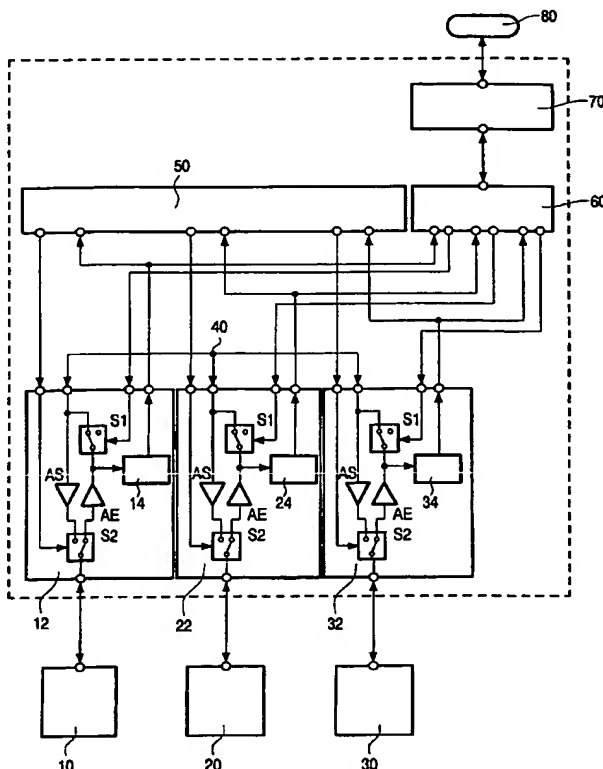
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(54) Title: CLOCK SYNCHRONISATION IN A TIME TRIGGERED PROTOCOL (TTP) ENVIRONMENT



(57) Abstract: The invention describes a method for the monitoring and management of data traffic in a communication system with several communication nodes which communicate via interfaces monitored by a bus monitor, comprising the following steps: a) provision of a predefined communication time schedule for all communication nodes, b) initialization of the bus monitor, c) synchronization of the communication time schedule of the bus monitor with the predefined communication time schedule executed by the communication nodes in a distributed arrangement, the synchronization taking place on the basis of activities observed at the interfaces, d) monitoring of the activities of the communication nodes by the bus monitor, e) comparison of the activities with the predefined communication time schedule, and f) deactivation of the interface for any communication node for which an activity not compatible with the predefined communication time schedule has been detected. A circuit arrangement and its use are also described.



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## INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**  
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**B. FIELDS SEARCHED**Minimum documentation searched (classification system followed by classification symbols)  
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 13230 A (FTS COMPUTERTECHNIK GES M B H ;KOPETZ GEORG (AT); KOPETZ HERMANN ( ) 22 February 2001 (2001-02-22) abstract page 2, line 15 -page 6, line 19 figures 1-5 --- -/--	1-11

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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## INTERNATIONAL SEARCH REPORT

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	<p>TEMPLE C: "Avoiding the babbling-idiot            failure in a time-triggered communication            system"            FAULT-TOLERANT COMPUTING, 1998. DIGEST OF            PAPERS. TWENTY-EIGHTH ANNUAL INTERNATIONAL            SYMPOSIUM ON MUNICH, GERMANY 23-25 JUNE            1998, LOS ALAMITOS, CA, USA, IEEE COMPUT.            SOC, US,            23 June 1998 (1998-06-23), pages 218-227,            XP010291298            ISBN: 0-8186-8470-4            cited in the application            abstract</p>	1,7

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